MIAMI–DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, FL 33175
T (786) 315–2590 F (786) 315–2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Tecnoglass, LLC
3550 NW 49 Street
Miami, FL 33142

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami–Dade County RER–Product Control Section to be used in Miami–Dade County and other areas, where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami–Dade County Product Control Section (In Miami–Dade County) and/ or the AHJ (in areas other than Miami–Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami–Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "PH 3200" Aluminum Sliding Glass Door – S.M.I.

APPROVAL DOCUMENT: Drawing No. **W07–101**, titled "Series PH 3200 Alum. Sliding Glass Door (S.M.I.)", sheets 1 through 9 of 9, dated 11/08/07, with the latest revision "**F**", dated 08/03/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia**, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

REVISION of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews NOA No. 20-1216.06** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P. E.**

MIAMI-DADE COUNTY APPROVED

10/19/2023

Tecnoglass, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections. ***(Submitted under NOA No. 08-0130.09)***

2. Drawing No **W07–101**, titled "Series PH 3200 Alum. Sliding Glass Door (S.M.I.)", sheets 1 through 7 of 7, dated 11/08/07, with the latest revision "A", dated 03/05/09, prepared by Al–Farooq Corporation, signed and sealed by Humayoun Farooq, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading, per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Resistance, per FBC, TAS 202-94
5) Small Missile Impact Test, per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading, per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5286**, dated 02/12/09, signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA No. 09-0604.18)

2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
2) Uniform Static Air Pressure Test, Loading, per FBC, TAS 202–94
3) Water Resistance Test, per FBC, TAS 202–94
4) Forced Entry Resistance, per FBC, TAS 202–94
5) Small Missile Impact Test, per FBC, TAS 201–94
6) Cyclic Wind Pressure Loading, per FBC, TAS 203–94
along with marked–up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–5288**, dated 07/23/07 and 08/30/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under previous NOA-No. 08 – 0130.09)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC–2007, prepared by Al–Farooq Corporation, dated 03/06/09, signed and sealed by Humayoun Farooq, P. E.

2. Glazing complies with ASTM E1300-02/04

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **09–0312.03** issued to E.I. DuPont De Nemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-0901.04
Expiration Date: September 06, 2024
Approval Date: October 19, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, dated March 04, 2009, signed and sealed by Humayoun Farooq, P. E.
2. Statement letter of no financial interest, dated March 04, 2009, signed and sealed by Humayoun Farooq, P. E.
3. Laboratory compliance letter for Test Report no. **FTL–5286**, issued by Fenestration Testing Laboratory, Inc., dated February 12, 2009, signed and sealed by Michael R. Wenzel, P. E.
4. Laboratory compliance letter for Test Report no. **FTL–5288**, issued by Fenestration Testing Laboratory, Inc., dated August 30, 2007, signed and sealed by Carlos S. Rionda, P. E.
   (Submitted under previous NOA No. 08–0130.09)

G. OTHERS

1. Notice of Acceptance No. **08–0130.09**, issued to R. C. Aluminum Industries, Inc. for their Series **"PH 3200" Aluminum Sliding Glass Door – S.M.I.”**, approved on 09/25/08 and expiring on 09/25/13.

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-0901.04
Expiration Date: September 06, 2024
Approval Date: October 19, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER PREVIOUS NOA # 18-0205.06

A. DRAWINGS

1. Drawing No. **W07-101**, titled "Series PH 3200 Alum. Sliding Glass Door (S.M.I.)", sheets 1 through 9 of 9, dated 11/08/07, with revision "**D**" dated 03/16/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-2004**, prepared by Al-Farooq Corporation, dated 03/14/2018, signed and sealed by Javad Ahmad, P.E.

2. Glazing complies with ASTM E1300-04/ 09

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their **"Kuraray SentryGlas® Interlayer**" expiring on 07/04/23.

F. STATEMENTS

1. Statement letter of conformance, complying with the **FBC 6th Edition (2014)**, and of no financial interest, dated 12/22/17, signed and sealed by Javad Ahmad, P. E.

2. Asset "Purchase Agreement" dated 11/19/2013, signed by Mr. Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc. and Mr. José M. Daes, for and on behalf of Tecnoglass, LLC.

3. "Bill of Sale" dated 06/19/14, signed by Mr. Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.

4. Statement letter dated 07/15/14, issued by R.C. Aluminum Industries, Inc. of sales of asset and relinquishing of all rights of NOA No. **09-0604.18**, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.

5. Distributor Agreement between, E.S. `Windows–Energia Solar S.A., Barranquilla, Colombia and Tecnoglass LLC, Miami, Florida, U.S.A., dated 02/07/17, signed by Carla Garcia and by Evelyn Daes, respectively.

G. OTHERS

1. Notice of Acceptance No. **09-0604.18**, issued to R. C. Aluminum Industries, Inc. for their Series **"PH3200" Aluminum Sliding Glass Door–S.M.I."**, approved on 08/12/09 and expiring on 09/25/13.

2. Verification Test will be required for next product approval renewal/revision.

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-0901.04
Expiration Date: September 06, 2024
Approval Date: October 19, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W07–101**, titled "Series PH 3200 Alum. Sliding Glass Door (S.M.I.)", sheets 1 through 9 of 9, dated 11/08/07, with the latest revision "**F**", dated 08/03/2023, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P. E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Interlayer**" dated 08/31/23, expiring on 07/04/28.

F. STATEMENTS

1. Statement letter of conformance, complying with the **FBC 7th Edition (2020)** and **FBC 8th Edition (2023)**, and of no financial interest, dated 08/03/2023, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P. E.

2. Letter from consultant Al-Farooq Corporation, on behalf of Tecnoglass, LLC, requesting a 1-year extension to allow time to perform verification test, dated 08/03/23, signed and sealed by Jalal Farooq, P.E.

3. Testing agreement letter, dated 08/28/23 between QAI Laboratories and Tecnoglass, LLC, issued by QAI Laboratories and signed by Lusinda Delgado, Technical Report Writer.

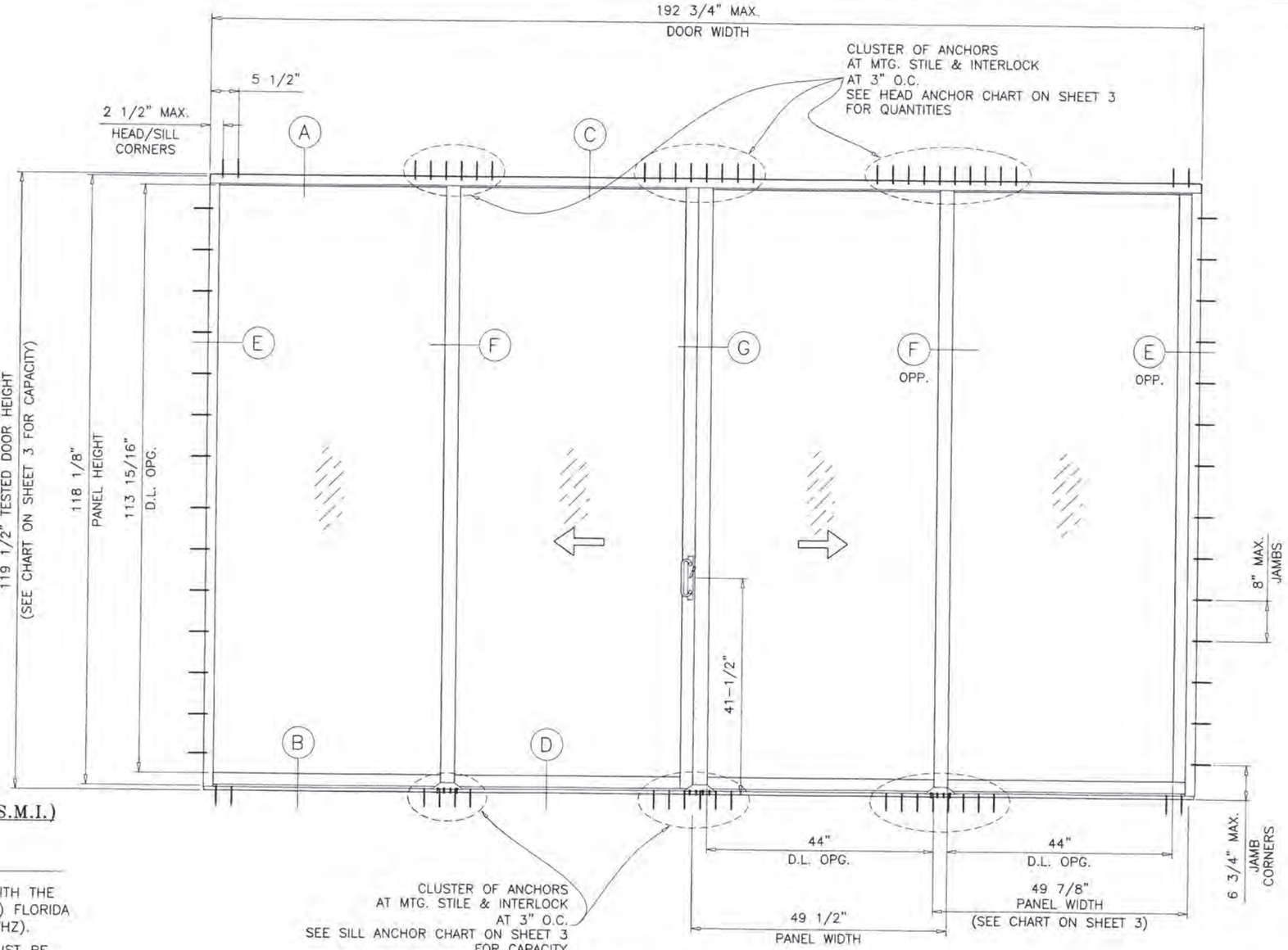
G. OTHERS

1. Notice of Acceptance No. **20-1216.06**, issued to Tecnoglass, LLC for their Series **"PH3200" Aluminum Sliding Glass Door – L.M.I."**, approved on 04/01/2021 and expiring on 09/06/23.

2. This is a one-year approval, subjected to successful verification test, the final approval will be issued for a total of 5 years.

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-0901.04
Expiration Date: September 06, 2024
Approval Date: October 19, 2023

DAYLITE OPENINGS:
D.L.O. HEIGHT = PANEL HEIGHT – 4.188"
D.L.O. WIDTH (FIX. PANEL) = PANEL WIDTH – 5.875"
D.L.O. WIDTH (OPER. PANEL) = PANEL WIDTH – 5.500"



TYPICAL ELEVATION
TESTED UNIT (OXXO)

SERIES PH3200 ALUM SLIDING GLASS DOOR (S.M.I.)

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHART SHOWN ON SHEET 3.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON–METALLIC AND NON–COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
MIAMI–DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 23-0901.04
Expiration Date 09/06/2024
By _____
Miami–Dade Product Control

AUG 0 3 2023

LAMINATED INSULATING GLASS
SMALL MISSILE IMPACT

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP–ANL\W07–101RC

SERIES PH3200 ALUM SLIDING GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

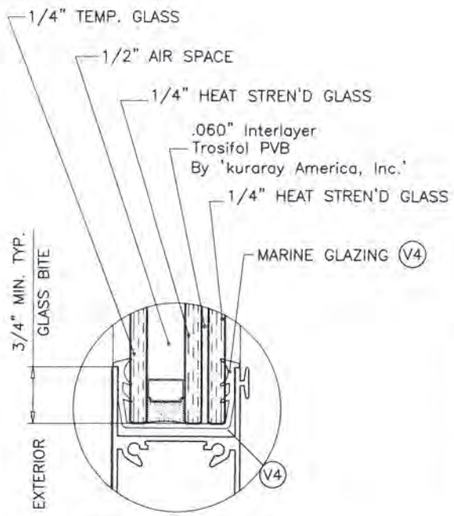
revisions:			
no	date	by	description
C	01.12.18		UPDATED TO 2017 FBC
D	03.16.18		NO CHANGE THIS SHEET
E	11.20.20		UPDATED TO 2020 FBC
F	08.03.23		UPDATED TO 2023 FBC

date: 11–08–07
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:

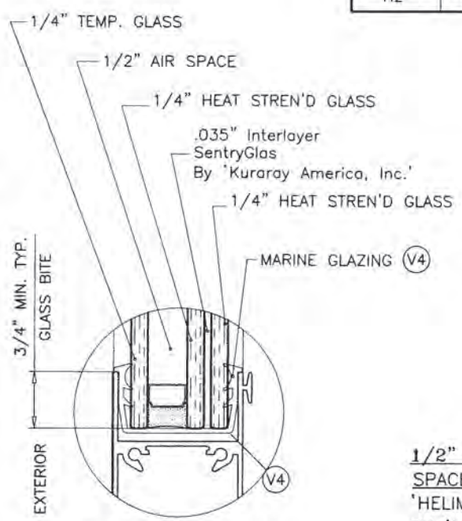
drawing no.
W07–101

sheet 1 of 9

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	PH3400-001	1/ PANEL	INTERLOCK STILE INSIDE	6005-T5	-
E2	PH3400-002	1	LOCK STILE	6063-T6	-
E3	PH3400-003	1	MEETING STILE	6005-T5	-
E4	PH3400-004	1/ FIX. PANEL	JAMB STILE	6063-T6	-
E5	PH3400-005	2	FRAME JAMB	6063-T6	-
E6	PH3400-006	1	FRAME HEAD	6005-T5	-
E7	PH3400-007	1	SILL TRACK	6005-T5	-
E8	PH3400-008	1	SILL THRESHOLD	6063-T6	-
E9	PH3400-009	1	HEAD CLOSURE ADAPTOR	6063-T6	-
E10	PH3400-010	1/ MOV. PANEL	MOVING OUTSIDE TOP RAIL	6063-T6	-
E11	PH3400-024	1/ MOV. PANEL	MOVING OUTSIDE BOTTOM RAIL	6005-T5	-
E12	PH3400-012	1/ FIX. PANEL	FIXED INSIDE TOP RAIL	6063-T6	-
E13	PH3400-013	1/ FIX. PANEL	FIXED INSIDE BOTTOM RAIL	6063-T6	-
E14	2400ST-031	AS REQD.	SILL TRACK PLATE, 5" LONG AT ENDS, 10" LONG AT STILE LOCATIONS	6061-T6	-
E15	2400ST-040	AS REQD.	SCREEN TRACK INSIDE	-	-
E16	2400ST-056	AS REQD.	SCREEN VERTICAL JAMB	-	-
E17	2400ST-057	AS REQD.	SCREEN TOP & BOTTOM RAIL	-	-
S1		2/ CORNER	#14 X 1" PH SMS TYPE "B" ST/ST	-	FRAME ASSY SCREWS
S2		2/ CORNER	#10 X 1" PH SMS TYPE "B" ST/ST	-	PANEL ASSY SCREWS
S3		AS REQD.	#10 X 3/4" PH.SMS. ST/ST	-	-
S5		4/ CLIP	1/4-20 X 3/4" LG. SOGKET HEAD CAP SCREW	ST/ST	-
V1	V-019	1/ MOV. PANEL	DRIP SILL VINYL	SOFT PVC	DUROMETER 65±5 SHORE A
V2	V-026	AS REQD.	BULB VINYL	SOFT PVC	DUROMETER 65±5 SHORE A
V3	V-047	AS REQD.	BULB VINYL	-	DUROMETER 60±5 SHORE A
V4	V-067	AS REQD.	MARINE GLAZING FOR LAM/INS. GLASS SMI	EPDM	DUROMETER 75±5 SHORE A
M1	U52	-	Q-LON 250T270 @ HEAD ADAPTOR & SILL THRESHOLD	-	-
M2	W31235NIK	AS REQD.	PILE WITH PLASTIC FIN W'STRIPPING	-	-
M3	P-066	AS REQD.	SILICONE BUMPER	-	-
M5	CCES-1003	-	ROLLER TRACK COVER	ST/ST	-
M6	RC 00151W/D	-	SILL ANCHOR TRACK	6005-T5	6" LONG
H1	PS01-0001-XXX	-	2 POINT LOCK KIT	-	-
H2	PR03-6000	-	ALUMINUM HOUSING W/ ST/ST TANDEM WHEELS	-	-



GLASS TYPE 'A'



GLASS TYPE 'B'

GLAZING OPTIONS

1-1/4" OVERALL INSUL. LAMINATED GLASS

SEALANTS:

ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND HEADS OF ANCHOR SCREWS AT SILL TO BE SEALED WITH WHITE/ALUM COLORED SEALANT.

LOCKS:

THREE PLY METALLIC HOOK LOCK WITH SURFACE MOUNT METALLIC HANDLE AT 42" FROM BOTTOM.
LOCK FASTENED WITH (2) #6 X 1/2" FH MACHINE SCREWS AND HANDLE FASTENED WITH (2) #8 X 2-1/4" OH MACHINE SCREWS.
SURFACE MOUNT METALLIC KEEPERS AT 42" FROM BOTTOM FASTENED WITH (2) #10 X 3/4" PH SMS.

1/2" AIR SPACE CONSISTING OF:

SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.

PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0901.04
Expiration Date 09/06/2024
By
Miami-Dade Product Control

AUG 03 2023

JALAL FAROOQ LICENSE No. 61223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W07-101RC

SERIES PH3200 ALUM SLIDING GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:			
no	date	by	description
C	01.12.18		UPDATED TO 2017 FBC
D	03.16.18		REV. PER RER COMMENTS
E	11.20.20		UPDATED TO 2020 FBC
F	08.03.23		NO CHANGE THIS SHEET

date: 11-08-07
scale: -
dr. by: TARIO
chk. by:

drawing no. W07-101

DESIGN LOAD CAPACITY – PSF (HEAD ANCHORS)											
		1/2" MAX. SHIM SPACE			3/8" MAX. SHIM SPACE			1/4" MAX. SHIM SPACE			
		ANCHORS 'A' & 'B'			ANCHORS 'C'			ANCHORS 'B'		ANCHORS 'C'	
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
36	80	118.8	120.0	120.0	111.8	120.0	120.0	120.0	120.0	120.0	120.0
42		101.8	120.0	120.0	95.8	120.0	120.0	120.0	120.0	120.0	120.0
48		89.1	118.8	120.0	83.8	111.8	120.0	110.1	120.0	117.3	120.0
54		79.2	105.6	106.7	74.5	99.4	106.7	97.9	106.7	104.3	106.7
60		71.3	95.0	96.0	67.1	89.4	96.0	88.1	96.0	93.8	96.0
36	84	113.1	120.0	120.0	106.5	120.0	120.0	120.0	120.0	120.0	120.0
42		97.0	120.0	120.0	91.2	120.0	120.0	119.8	120.0	120.0	120.0
48		84.9	113.1	120.0	79.8	106.5	120.0	104.9	120.0	111.7	120.0
54		75.4	100.6	106.7	71.0	94.6	106.7	93.2	106.7	99.3	106.7
60		67.9	90.5	96.0	63.9	85.2	96.0	83.9	96.0	89.4	96.0
36	90	105.6	120.0	120.0	99.4	120.0	120.0	120.0	120.0	120.0	120.0
42		90.5	120.0	120.0	85.2	113.6	120.0	111.8	120.0	119.2	120.0
48		79.2	105.6	120.0	74.5	99.4	120.0	97.9	120.0	104.3	120.0
54		70.4	93.9	106.7	66.2	88.3	106.7	87.0	106.7	92.7	106.7
60		63.4	84.5	96.0	59.6	79.5	96.0	78.3	96.0	83.4	96.0
36	96	99.0	120.0	120.0	93.2	120.0	120.0	120.0	120.0	120.0	120.0
42		84.9	113.1	120.0	79.8	106.5	120.0	104.9	120.0	111.7	120.0
48		74.3	99.0	120.0	69.9	93.2	116.4	91.8	120.0	97.8	120.0
54		66.0	88.0	106.7	62.1	82.8	103.5	81.6	106.7	86.9	106.7
36	102	93.2	120.0	120.0	87.7	116.9	120.0	115.1	120.0	120.0	120.0
42		79.9	106.5	120.0	75.1	100.2	120.0	98.7	120.0	105.1	120.0
48		69.9	93.2	116.5	65.8	87.7	109.6	86.4	120.0	92.0	120.0
54		62.1	82.8	103.5	58.4	77.9	97.4	76.8	106.7	81.8	106.7
36	108	88.0	117.3	120.0	82.8	110.4	120.0	108.7	120.0	115.9	120.0
42		75.4	100.6	120.0	71.0	94.6	118.3	93.2	120.0	99.3	120.0
48		66.0	88.0	110.0	62.1	82.8	103.5	81.6	120.0	86.9	120.0
36	114	83.4	111.2	120.0	78.4	104.6	120.0	103.0	120.0	109.8	120.0
42		71.5	95.3	119.1	67.2	89.6	112.1	88.3	120.0	94.1	120.0
48		62.5	83.4	104.2	58.8	78.4	98.1	77.3	120.0	82.3	120.0
36	119	79.9	106.5	120.0	75.1	100.2	120.0	98.7	120.0	105.1	120.0
42		68.5	91.3	114.1	64.4	85.9	107.4	84.6	120.0	90.1	120.0
48		59.9	79.9	99.8	56.4	75.1	93.9	74.0	120.0	78.9	118.3

DESIGN LOAD CAPACITY – PSF SILL ANCHORS (TYPE A)				
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
36	80	120.0	120.0	120.0
42		120.0	120.0	120.0
48		110.1	120.0	120.0
54		97.9	106.7	106.7
60		88.1	96.0	96.0
36	84	120.0	120.0	120.0
42		119.8	120.0	120.0
48		104.9	120.0	120.0
54		93.2	106.7	106.7
60		83.9	96.0	96.0
36	90	120.0	120.0	120.0
42		111.8	120.0	120.0
48		97.9	120.0	120.0
54		87.0	106.7	106.7
60		78.3	96.0	96.0
36	96	120.0	120.0	120.0
42		104.9	120.0	120.0
48		91.8	120.0	120.0
54		81.6	106.7	106.7
36	102	115.1	120.0	120.0
42		98.7	120.0	120.0
48		86.4	120.0	120.0
54		76.8	106.7	106.7
36	108	108.7	120.0	120.0
42		93.2	120.0	120.0
48		81.6	120.0	120.0
36	114	103.0	120.0	120.0
42		88.3	120.0	120.0
48		77.3	115.9	120.0
36	119	98.7	120.0	120.0
42		84.6	120.0	120.0
48		74.0	111.0	120.0

MAX. OVERALL DOOR WIDTHS TO BE LIMITED TO TESTED 192–3/4 IN. WHICH TO BE USED WITH SINGLE NOM. PANEL WIDTH PER CHART ABOVE.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

NOTE:
USING CHART ON THIS SHEET SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM HEAD OR SILL ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 23-0901.04
Expiration Date 09/06/2024
By
Miami–Dade Product Control
AUG 0 3 2023

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP–ANL\W07–101RC

SERIES PH3200 ALUM SLIDING GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

revisions:

no	date	by	description
C	01.12.18		UPDATED TO 2017 FBC
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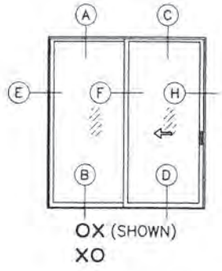
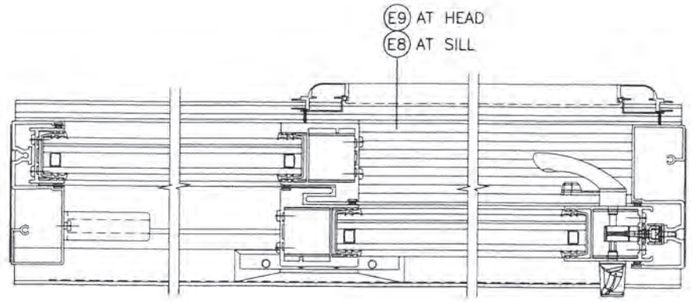
F	08.03.23		NO CHANGE THIS SHEET

date: 11–08–07
scale: –
dr. by: TARIQ
chk. by:

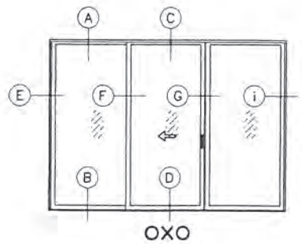
drawing no. W07–101



OX (SHOWN)
XO



HORIZONTAL CROSS SECTION FOR ILLUSTRATION ONLY.
SEE SHEETS 5, 6 & 7 FOR INSTALLATION ANCHORS.



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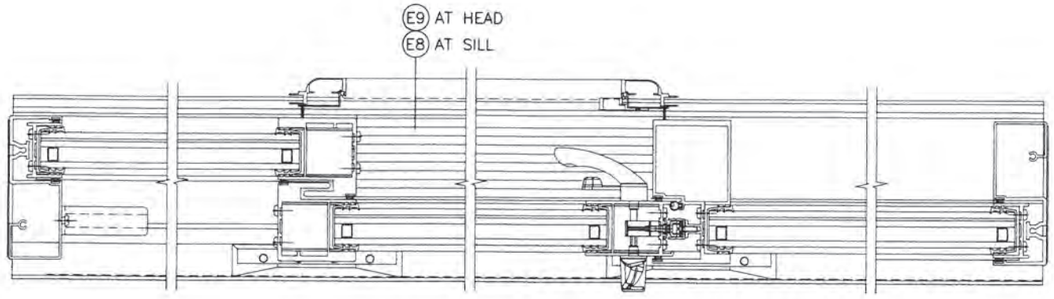
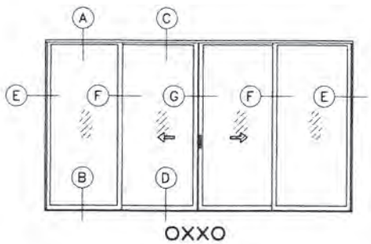
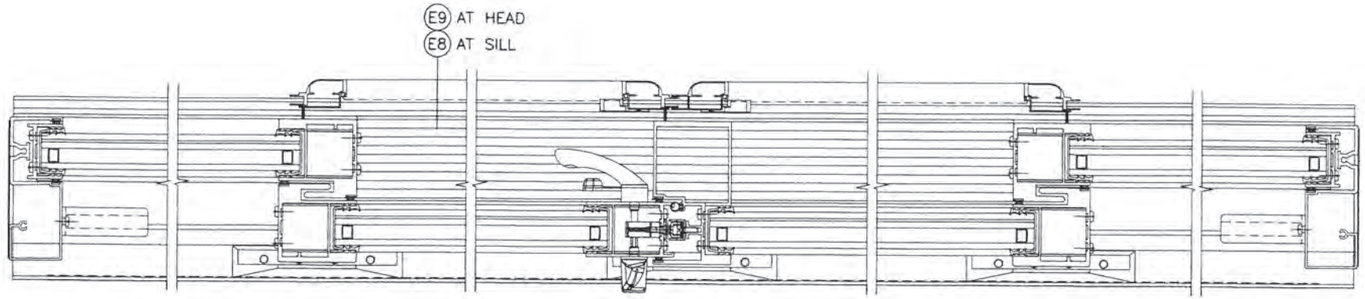




OXXO

APPROVED CONFIGURATIONS



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chk. by:

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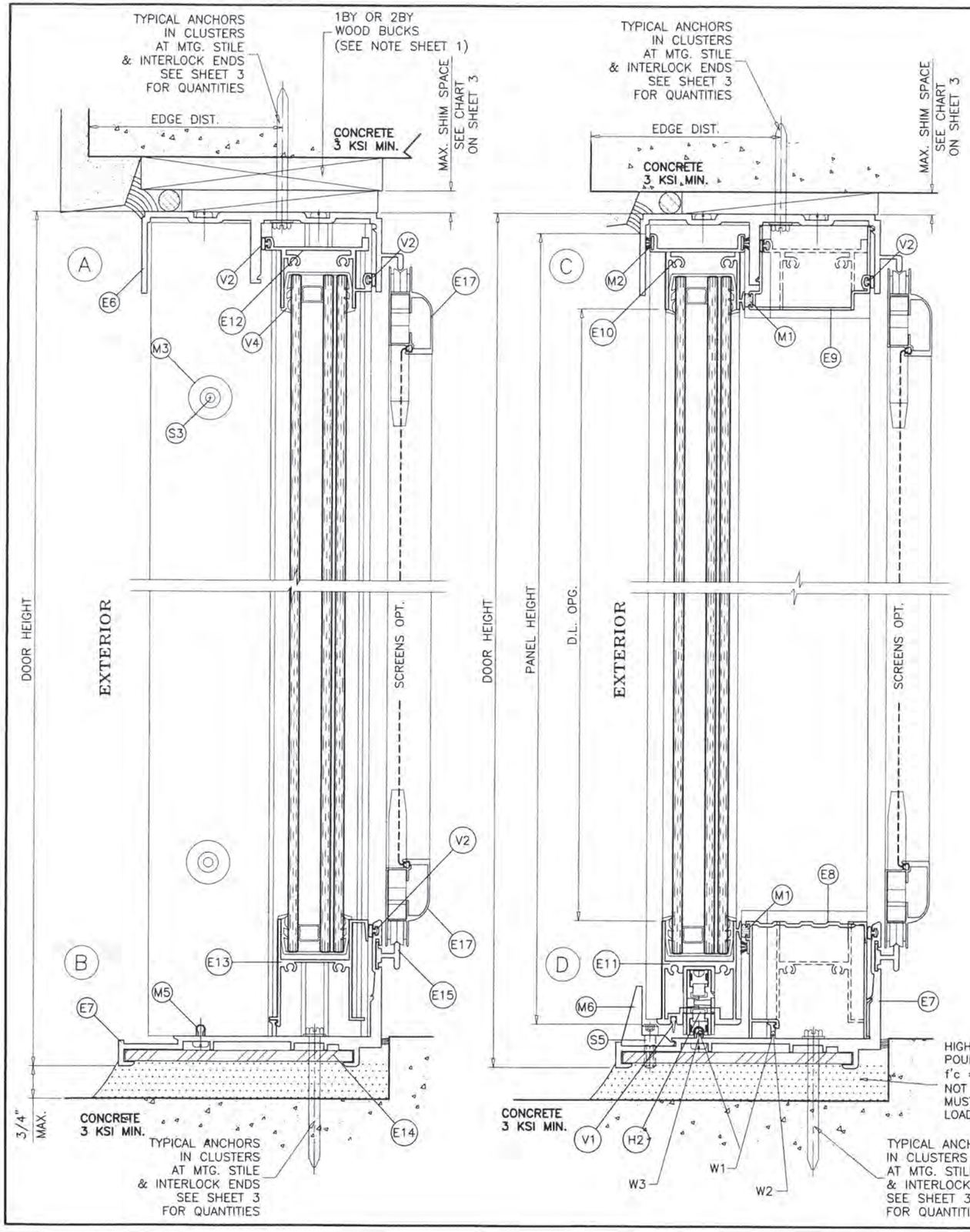
W07–101

sheet 4 of 9



WEEPS:

W1 = 3/4" WEEP NOTCH AT EACH END OF EACH TRACK
W2 = 1-3/4" NOTCH AT MIDSPAN OF FIX. PANEL TRACK
W3 = 2-1/2" NOTCH AT MIDSPAN OF MOV. PANEL TRACK

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dr. by: TARIQ
chk. by:

drawing no. W07-101

sheet 5 of 9

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY 'TECNOGLASS' MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

TYPE 'A'– 1/4" X 2-3/4" HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

TYPE 'B'– 1/4" X 2-3/4" HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE, 1-3/4" MIN. EMBEDMENT

TYPE 'C'– 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL

TYPE 'A'– 1/4" DIA. HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE, 1-3/4" MIN. EMBEDMENT

AT JAMBS

TYPE 'A'– 1/4" X 2-3/4" HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

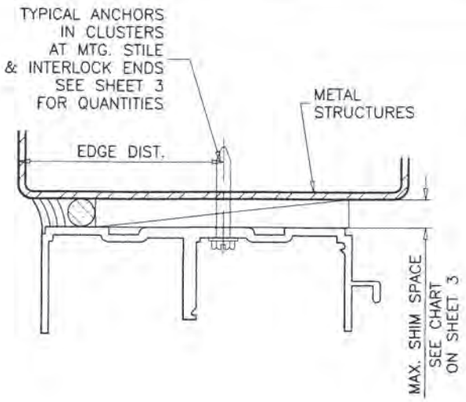
THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS

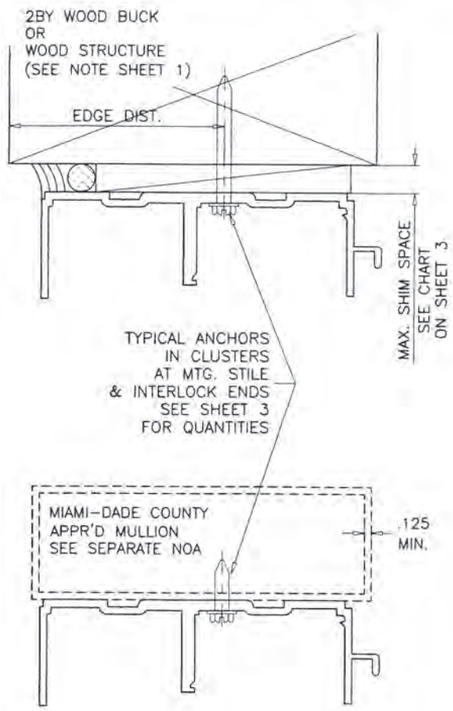
TYPE 'B'– 1/4" X 2-3/4" HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS

TYPE 'C'– 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.





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AUG 03 2023

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3598)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W07-101RC

SERIES PH3200 ALUM SLIDING GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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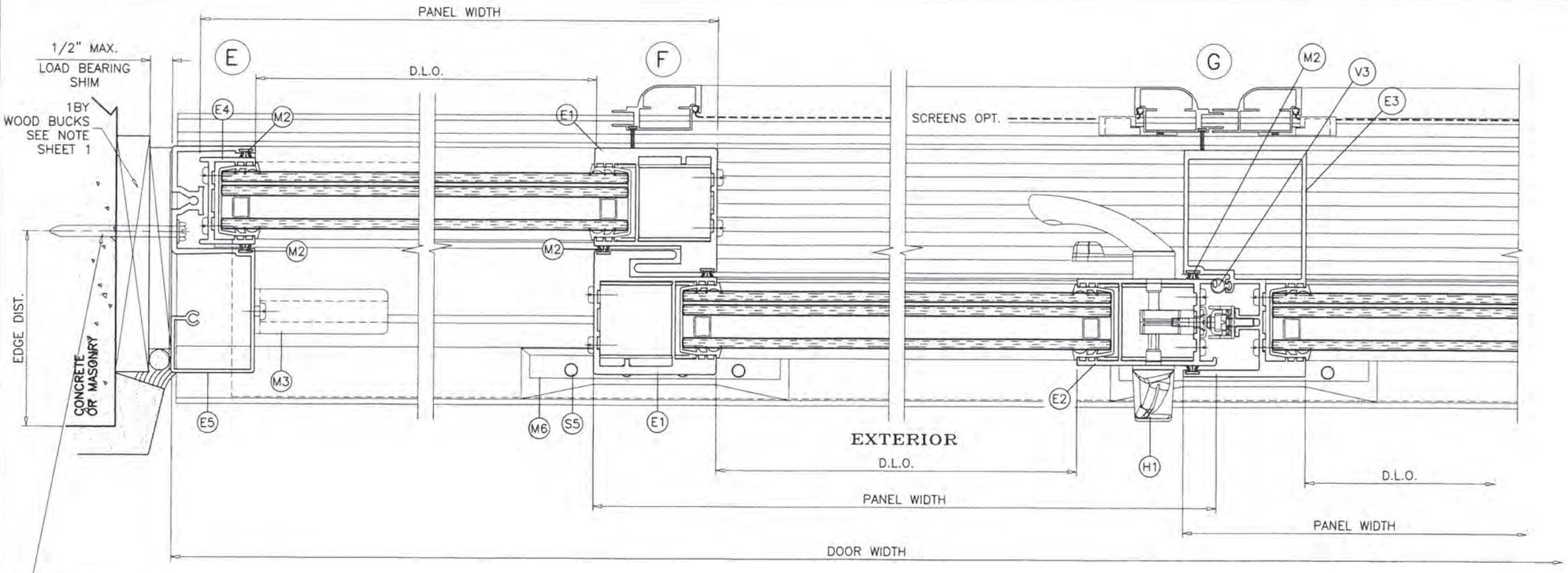
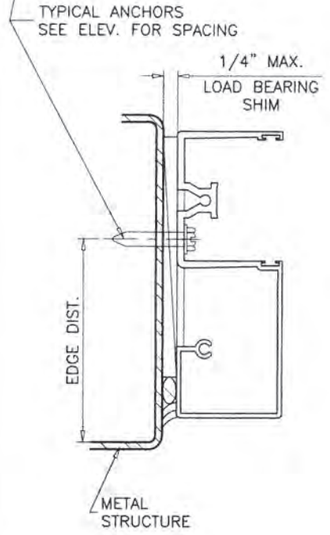
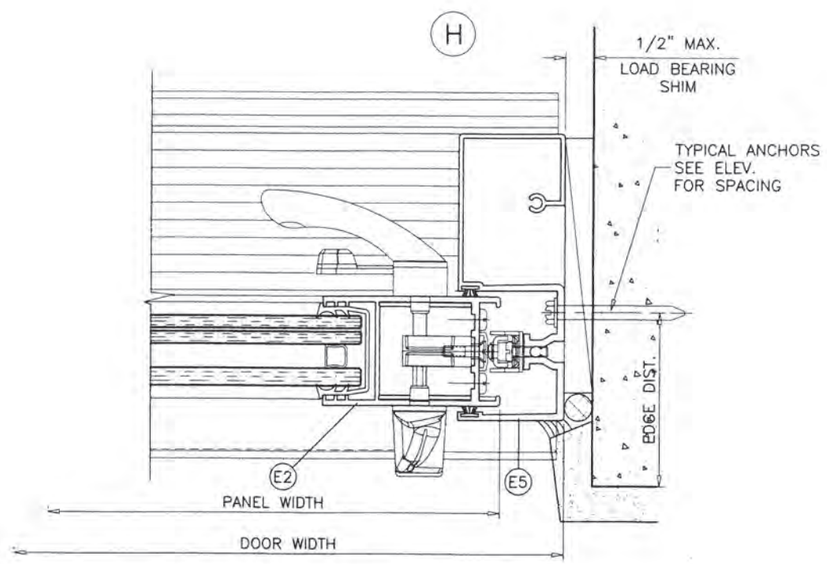
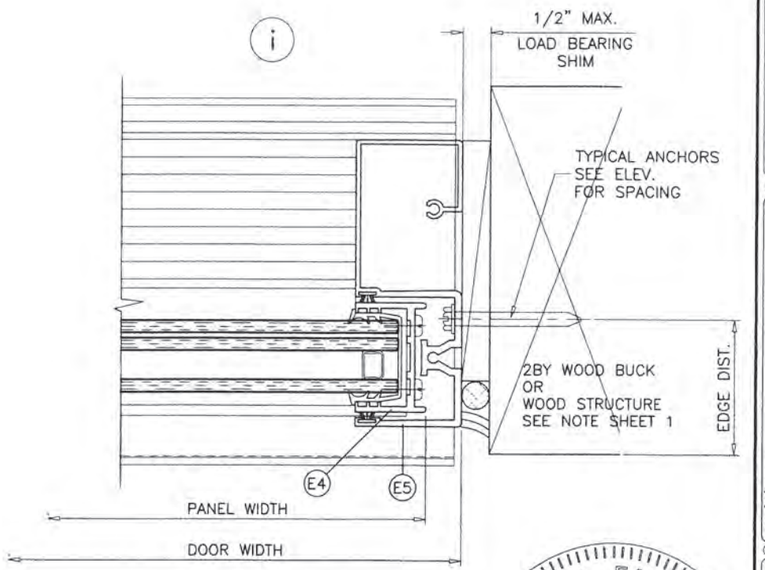
dr. by: TARIQ
chk. by:

drawing no. W07-101









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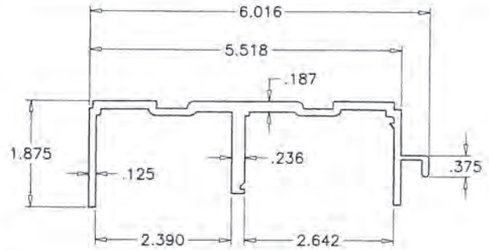
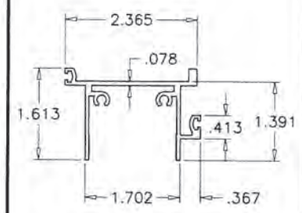
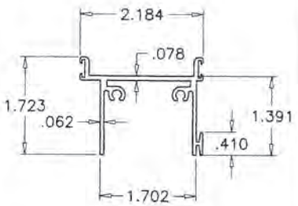


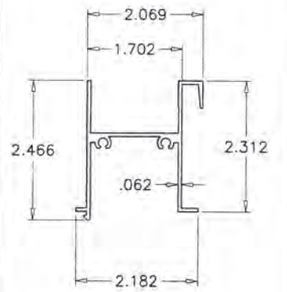
E6 FRAME HEAD



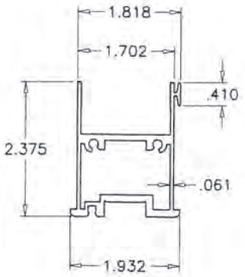
E12 FIX. TOP RAIL



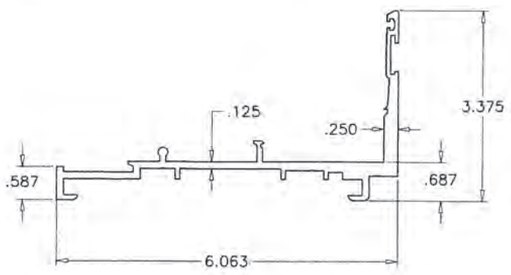
E10 MOV. TOP RAIL



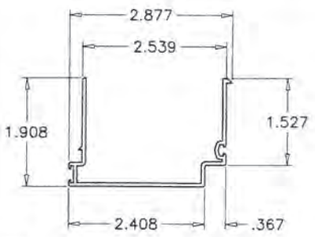
E13 FIX. BOTTOM RAIL



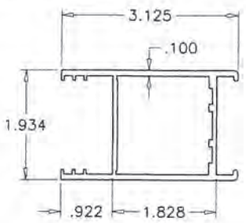
E11 MOVING BOTTOM RAIL



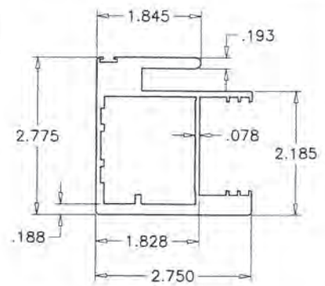
E7 FRAME SILL



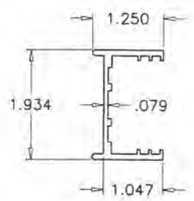
E9 HEAD COVER



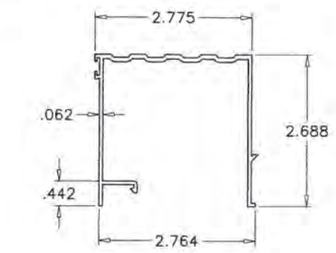
E2 LOCK STILE



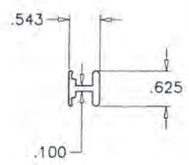
E1 INTERLOCK



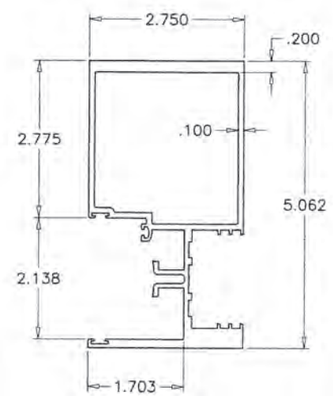
E4 FIXED STILE



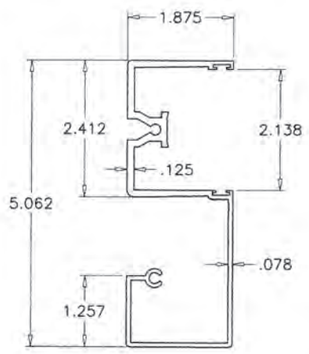
E8 THRESHOLD COVER



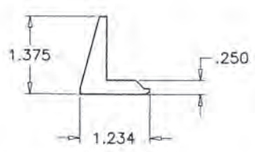
E15 INSIDE SILL TRACK



E3 MTG. STILE



E5 FRAME JAMB



M6 SILL ANCHOR

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MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

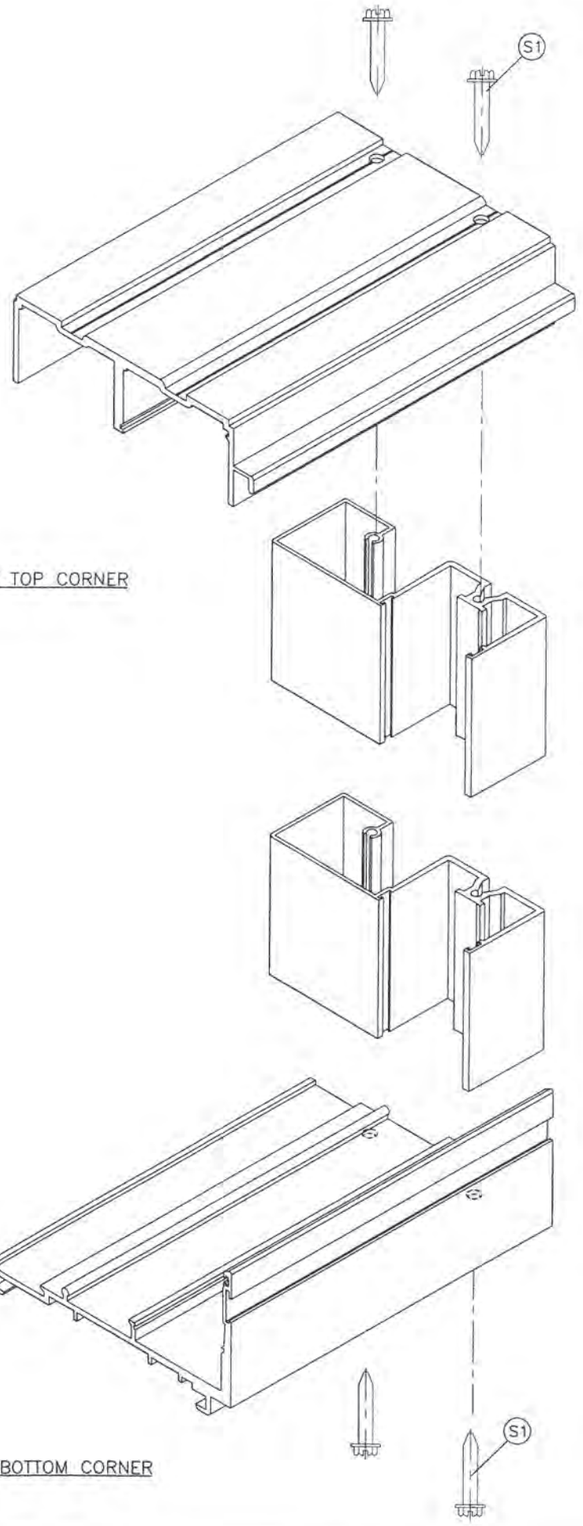
revisions:

no	date	by	description
C	01.12.18		UPDATED TO 2017 FBC
D	03.16.18		NO CHANGE THIS SHEET
E	11.20.20		UPDATED TO 2020 FBC
F	08.03.23		NO CHANGE THIS SHEET

date: 11–08–07
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

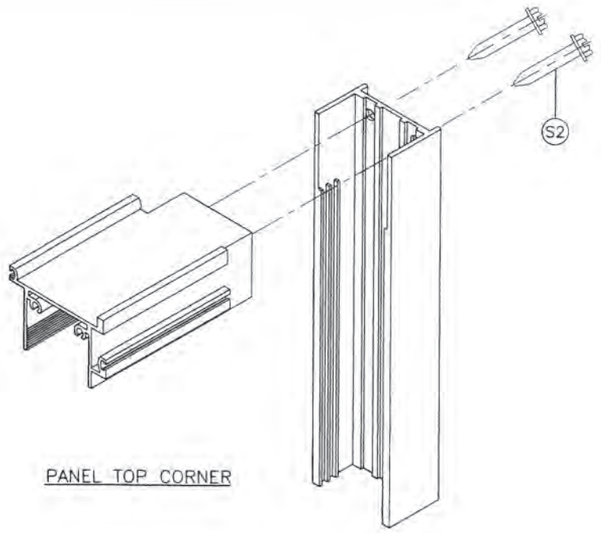
drawing no. W07–101

sheet 8 of 9

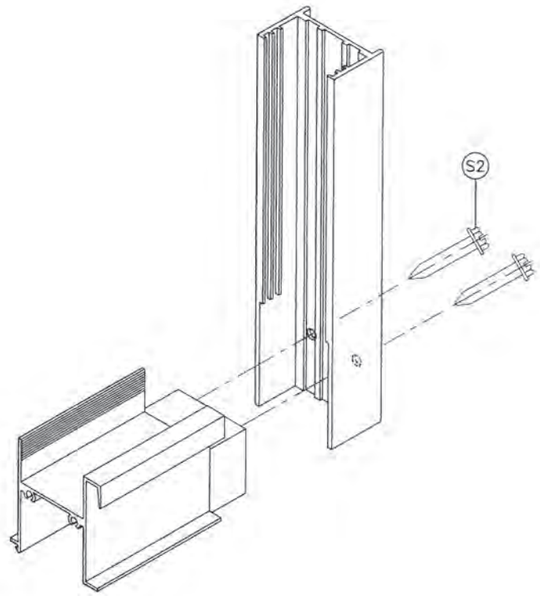


FRAME TOP CORNER

FRAME BOTTOM CORNER



PANEL TOP CORNER



PANEL BOTTOM CORNER

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0901.04

Expiration Date 09/06/2024

By _____
Miami-Dade Product Control

AUG 0 3 2023

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W07-101RC

SERIES PH3200 ALUM SLIDING GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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sheet 9 of 9